

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-210092

(43)Date of publication of application : 31.08.1988

(51)Int.Cl.

C30B 15/00

(21)Application number : 62-041343

(71)Applicant : TOSHIBA CORP

(22)Date of filing : 26.02.1987

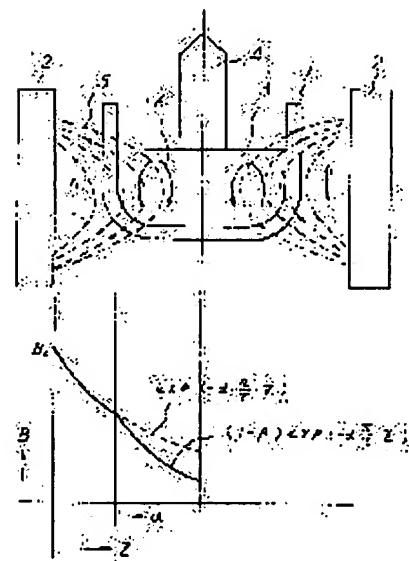
(72)Inventor : YAMAZAKI HIDEKI

(54) PRODUCTION OF SINGLE CRYSTAL

(57)Abstract:

PURPOSE: To stably obtain the title single crystal, by applying a vertical shifting magnetic field to the melt of a single crystal material in a crucible, and pulling up a single crystal while agitating the melt to uniformize the composition distribution as well as to uniformize the temp. distribution.

CONSTITUTION: The AC magnet 2 for generating a vertical shifting magnetic field is placed on the outside of the crucible 1, and the melt 3 of the single crystal material in the crucible 1 is vertically agitated by the vertical shifting magnetic field 5 based on the principle of a linear motor. A radial current is also induced by the vertical agitation to form an agitating current 6, hence the composition of the melt is uniformized by the agitation, and also the temp. is uniformized. By this method, the homogeneous semiconductor single crystal of Si, GaAs, etc., without having any flaw can be pulled up.



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[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the
examiner's decision of rejection or application
converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of
rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]